## PARP1-IN-17

a	10/ 157107		
Cat. No.:	HY-157137		
Molecular Formula:	C <sub>24</sub> H <sub>27</sub> FN <sub>4</sub> O	$\sim$	
Molecular Weight:	406.5	N <sub>×</sub> N	
Target:	PARP; Caspase; Apoptosis	NÝ Ń	
Pathway:	Cell Cycle/DNA Damage; Epigenetics; Apoptosis		Ľ
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	Г F HO	

Product Data Sheet

BIOLOGICAL ACTIV				
Description	PARP1-IN-17 is a PARP-1 inhibitor (IC <sub>50</sub> = 19.24 nM for PARP-1 and = 32.58 nM for PARP-2) and induce apoptosis. PARP1-IN-17 shows excellent anti-proliferative activity <sup>[1]</sup> .			
IC₅₀ & Target	PARP-1	Caspase 3		
In Vitro	PARP1-IN-17 (Compound 11b) (72 h) exhibits anti-proliferative effects in A549 cells, OVCAR-3 cells, HCT-116 cells and MCF-7 cells <sup>[1]</sup> . PARP1-IN-17 (1-4 μM, 48 h) can reduce the biosynthesis of PAR induce apoptosis in A549 cells <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay <sup>[1]</sup>			
	Cell Line:	A549 cells, OVCAR-3 cells, HCT-116 cells, MCF-7 cells		
	Concentration:			
	Incubation Time:	72 h		
	Result:	Had excellent anti-proliferative activity against A549 cell, OVCAR-3 cells, HCT-116 cells and MCF-7 cells (IC <sub>50</sub> =1.95 $\pm$ 0.33 $\mu$ M, 4.02 $\pm$ 0.24 $\mu$ M, 7.45 $\pm$ 1.98 $\mu$ M and 9.21 $\pm$ 2.54 $\mu$ M).		
	Apoptosis Analysis <sup>[1]</sup>			
	Cell Line:	A549 cells		
	Concentration:	1 μΜ, 2 μΜ, 4 μΜ		
	Incubation Time:	48 h		
	Result:	Induced apoptosis in cancer cells and increased the apoptosis rates of A549 cells in a dose- dependent manner.		
	Western Blot Analysis <sup>[1]</sup>			
	Cell Line:	A549 cells, OVCAR-3 cells, HCT-116 cells, MCF-7 cells		

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Concentration:	1 μΜ, 2 μΜ, 4 μΜ
Incubation Time:	
Result:	Reduced the biosynthesis of PAR, and had the best effect at 4.0 $\mu M.$
	Decreased the expression of Caspase 3.

## REFERENCES

[1]. Yu L, et al. Discovery of novel 2, 3, 4, 5-tetrahydrospiro [benzo [c] azepine-1, 1'-cyclohexan]-5-ol derivatives as PARP-1 inhibitors [J]. BMC chemistry, 2023, 17(1): 147.

## Caution: Product has not been fully validated for medical applications. For research use only.

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